

PTO/SB/21 (09-06)

Approved for use through 03/31/2007. OMB 0651-0031

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REMERS		Application Number	10/708,983	
TRANSMITTAL		Filing Date	04/05/2004	
FORM		First Named Inventor	Jui-Tsen Huang	
		Art Unit	1756	
be used for all correspondence after initial filing)		Examiner Name	DUDA, KATHLEEN	
al Number of Pages in This Submission	9	Attorney Docket Number	NAUP0487USA1	

ENCLOSURES (Check all that apply)   After Allowance Communication to Towns (See Transmittal Form   Drawing(s)   After Allowance Communication to Towns (See Transmittal Form   Drawing(s)   Appeal Communication to Board of Appeals and Interferences of Appeals and Interferences of Appeals and Interferences   Appeal Communication to Towns (Appeal Rotte, Bridf, Reply Brief)   Petition   Petition   Petition   Appeal Communication to Towns (Appeal Rotte, Bridf, Reply Brief)   Petition   Petition   Petition   Proprietary Information   Power of Attorney, Revocation   Proprietary Information   Power of Attorney, Revocation   Change of Correspondence Address   Terminal Disclaimer	(to be used for all correspondence after i	nitial filing)	Examiner Name	miner Name DUDA, KATHLEEN			***
Fee Transmittal Form Fee Attached Fee Attach	Total Number of Pages in This Submission	Attorney Docket Number	NAUP	0487USA1	187USA1		
Fee Attached  Fee Attached  Licensing-related Papers  Appeal Communication to Board of Appeals and Interferences  Appeal Communication to TC (Appeal Motice, Brief, Reply Brief)  After Final  Provisional Application  Power of Alterney, Revocation  Change of Correspondence Address  Tempinal Disclaimer  Express Abandonment Request  Information Disclosure Statement  Certified Copy of Priority  Document(s)  Certified Copy of Priority  Document(s)  Remarks  Request for Certificate of Correction of Office Mistake  Signature  Signature  Signature Of Appeals and Interferences  Appeal Communication to Board of Appeals and Interferences  Appeal Communication to TC  Appeal Communication  Prover of Atcrety, Revocation  Charge of Correspondence Address  The Action Final Final Provisional Appeal Communication to TC  Appeal Communication  Prover of Atcrety, Revocation  Charge of Correspondence Address  The Action Final Final Provisional Appeal Communication  Indeed Appeal Communicat	ENCLOSURES (Check all that apply)						
Firm Name  North America Intellectual Property Corporation  Signature  Winston Hsu  Date  JAN 2 6 2007  Reg. No. 41,526  CERTIFICATE OF TRANSMISSION/MAILING  I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:	Fee Attached  Amendment/Reply  After Final  Affidavits/declaration(s)  Extension of Time Request  Express Abandonment Request  Information Disclosure Statement  Certified Copy of Priority Document(s)  Reply to Missing Parts/ Incomplete Application  Reply to Missing Parts	Licensing-related Papers  Petition Petition to Convert to a Provisional Application Power of Attorney, Revocati Change of Correspondence Terminal Disclaimer Request for Refund  CD, Number of CD(s)  Landscape Table on C	Address	Appea of Appea (Appea (Appea (Appea ) Propri Status Other below 1. A cc 11/2 3. Cop date 4. A cc	al Communication peals and Interfer al Communication al Notice, Brief, Resistary Information is Letter Enclosure(s) (pley): opp of the Front Pagopy of Fee Transmit 21/2006. old 09/26/2006 opp of the Certification peals and Interference of the Notice of opp of the Certification peals and Interference of the Notice of opp of the Certification peals and Interference of the Notice of opp of the Certification peals and Interference of the Notice of the Certification peals and Interference of the Notice of the Certification peals and Interference of the Notice of the Certification peals and Interference of the Notice of the Notice of the Notice of the Certification peals and Interference of the Notice of the Noti	n to Board rences n to TC ply Brief) n ease Identify ge of Patent. ttal submitted on	
North America Intellectual Property Corporation  Signature Winston Hsu  Date JAN 2 6 2007 Reg. No. 41,526  CERTIFICATE OF TRANSMISSION/MAILING  I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:	SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT						
Printed name  Winston Hsu  Date  JAN 2 6 2007  Reg. No. 41,526  CERTIFICATE OF TRANSMISSION/MAILING  I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:	Firm Name North America Int	ellectual Pro	pperty Corporation				
Date  JAN 2 6 2007  Reg. No. 41,526  CERTIFICATE OF TRANSMISSION/MAILING  I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:	Signature Wunter to	tore					
CERTIFICATE OF TRANSMISSION/MAILING  I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:	Winston Hsu						
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Typed or printed name Stephanie Lai Date JAN 2 6 2007	Typed or printed name Stephanie I	_ai		**	Date	JAN 2 6	2007

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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For FY 2005

FEE TRANSMI

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	Complete if Known
Application Number	10/708,983
Filing Date	04/05/2004
First Named Inventor	Jui-Tsen Huang
Examiner Name	DUDA, KATHLEEN
Art Unit	1756
	MALIDOAGTUGAA

TOTAL AMOUNT OF PAYMENT (\$) 0.00  Attorney Docket No. NAUP0487USA1  METHOD OF PAYMENT (check all that apply)  Check Credit Card Money Order None Other (please identify):  Deposit Account Deposit Account Number: 50-3105  Deposit Account Name North America Intellectual Property Corporation  For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)  Charge fee(s) indicated below  Charge any additional fee(s) or underpayments of fee(s)  Charge fee(s) indicated below, except for the filing fee under 37 CFR 1.16 and 1.17  WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card	Applicant claims small entity status. See 37 CFR 1.27  Art Unit 1756							
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Check Credit Card Money Order None Other (please identify):    Deposit Account Deposit Account Number: 50-3105   Deposit Account Name North America Intellectual Property Corporation		Automey Booker No.						
Deposit Account   Deposit Account Number   50-3105   Deposit Account NameNorth America Intellectual Property Corporation	METHOD OF PAYMENT (check all that apply)							
For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)    Charge fee(s) indicated below	<u> </u>	· ·						
Charge fee(s) indicated below  Charge any additional fee(s) or underpayments of fee(s)  Charge any additional fee(s) or underpayments of fee(s)  Charge any additional fee(s) or underpayments of fee(s)  Credit any overpayments  WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.  FEE CALCULATION  1. BASIC FILING, SEARCH, AND EXAMINATION FEES  FILING FEES  SEARCH FEES  SEARCH FEES  SEARCH FEES  SMAIL Entity  Fee (\$)  Fee \$  Pee Paid (\$)  Fee				ual Property Corporation				
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4. OTHER FEE(S)  Non-English Specification, \$130 fee (no small entity discount)  Fees Paid (\$)								
Other (e.g., late filing surcharge):								

SUBMITTED BY Registration No. Telephone 3027291562 Wunter Hou 41,526 Signature (Attorney/Agent) Date JAN 2 6 2007 Name (Print/Type) Winston Hsu

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# PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial No. : 10/708,983 Filing Date : Apr. 5, 2004

Inventor : Jui-Tsen Huang
Docket No. : NAUP0487USA1

Title: Method of fabricating a semiconductor device

To: Commissioner for Patents

P.O. BOX 1450

Alexandria, VA 22313-1450

Subject: Request for Certificate of Correction of Office

Mistake

The residence of the Assignee listed on the front page of the Patent is incorrect (Attachment 1). Documents on record indicate this as an office mistake of consequence.

The applicant hereby requests that a Certificate of Correction be issued under 37 CFR 1.322 to correct the residence of the Assignee from "Hsin" to "Hsin-Chu" which was correctly listed on the Fee Transmittal submitted on 11/21/2006 (Attachment 2) and the Notice of Recordation dated 09/26/2006 (Attachment 3).

Sincerely yours,

l	Vinton	Hari	Date:	JAN 2 6	2007

Winston Hsu, Patent Agent No. 41,526

P.O. BOX 506, Merrifield, VA 22116, U.S.A.

Voice Mail: 302-729-1562 Facsimile: 806-498-6673

e-mail : winstonhsu@naipo.com

Note: Please leave a message in my voice mail if you need to talk to me. (The time in D.C. is 13 hours behind the Taiwan time, i.e. 9 AM in D.C. = 10 PM in Taiwan.)

Please correct the residence of the assignee from "Hsin" to "Hsin-Chu"

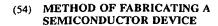


(10) Patent No.:

US 7,157,211 B2

(45) Date of Patent:

Jan. 2, 2007



(75) Inventor: Jui-Tsen Huang, Taipei (TW)

(12) United States Patent

(73) Assignee: United Microelectronics Corp., Hsin

(TW)

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35

U.S.C. 154(b) by 207 days.

(21) Appl. No.: 10/708,983

(22) Filed: Apr. 5, 2004

(65) Prior Publication Data

US 2004/0191699 A1 Sep. 30, 2004

#### Related U.S. Application Data

(62) Division of application No. 10/063,307, filed on Apr 10, 2002.

(51) Int. Cl. G03F 7/26

(2006 01)

(58) Field of Classification Search ...... 430/311, 430/316

See application file for complete search history.

## (56) References Cited

## U.S. PATENT DOCUMENTS

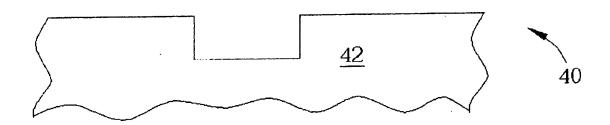
\* cited by examiner

Primary Examiner—Kathleen Duda (74) Attorney, Agent, or Firm—Winston Hsu

#### 57) ABSTRACT

A method of fabricating a semiconductor device. A first organic layer, a sacrificial layer, and a second organic layer are sequentially formed on a substrate. Then, a photolithography process is performed for forming a predetermined pattern in the second organic layer Thereafter, the second organic layer is utilized as an etching mask for etching the sacrificial layer till a surface of the first organic layer is exposed, thus transferring the predetermined pattern to the sacrificial layer. Subsequently, the sacrificial layer is utilized as an etching mask for etching the first organic layer till a surface of the substrate is exposed, thereby transferring the predetermined pattern to the first organic layer. Then, the sacrificial layer and the first organic layer are utilized as an etching mask for etching the substrate, thereby transferring the predetermined pattern to the substrate. Finally, the first organic layer is removed by use of plasma.

#### 12 Claims, 10 Drawing Sheets



### Attachment 2

# PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
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MERRIFIELD, VA 22	116			Stephanle	Lai		(Dopositor's name)
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APPLICATION NO.	FILING DATE	T	FIRST NAMED INVEN	TOR	٨٦	TTORNEY DOCKET NO.	CONFIRMATION NO.
	04/05/2004	<del></del>	Jui-Teen Huang			NAUP0487USA1	2982
10/708,983 TITLE OF INVENTION:		ng a semiconductor de	vice				
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE PREV.	PAID ISSUE FI	EE TOTAL FEE(S) DU	E DATE DUE
nonprovisional	NO	\$1400	\$300		<b>\$</b> 0	\$1700	12/08/2006
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DUDA, KA			2. For printing on t	he patent fro	ont page, list	) A /:-	
1. Change of corresponder CFR 1.363).			(1) the names of u	p to 3 regis	stered patent at	llorneys   VVII	nston Hsu
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PLEASE NOTE: Unle	ss an assignee is ident	ified below, no assignee pletion of this form is NO	data will appear on u T a substitute for filing	g an assignm	nent.	10 10011111111	document has been filed for
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Please check the appropris	ate assignee category of	r categories (will not be p	rinted on the patent) :	☐ Individ	dual 🗹 Corpo	oration or other private g	roup entity Government
4a. The following fee(s) as		4	b. Payment of Fee(s): (	Please first	reapply any p	previously paid issue fe	: shown above)
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interest as shown by the re	cords of the United Sta	ites Patent and Trademark	k Office.			24/2222	
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DOCKET NUMBER: NAUPO487USA1

ASSIGNOR:

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DOC DATE: 01/10/2002

ASSIGNEE:

UNITED MICROELECTRONICS CORP. NO.3, LI-HSIN ROAD 2, SCIENCE-

BASED INDUSTRIAL PARK HSIN-CHU CITY, TAIWAN

SERIAL NUMBER: 10708983

FILING DATE: 04/05/2004

PATENT NUMBER:

ISSUE DATE:

TITLE: METHOD OF FABRICATING A SEMICONDUCTOR DEVICE

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#### Attachment 4

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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION Page 1 of 1 : 7,157,211 B2 PATENT NO. APPLICATION NO.: 10/708,983 ISSUE DATE Jan. 2, 2007 INVENTOR(S) Jui-Tsen Huang It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below: On the title page item(73), correct the residence of the assignee from "Hsin" to "Hsin-Chu".

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